

AWWA Webinar Program: Boosting Your Next Water Project with Visual Inspection Technology April 12th, 2023

Webcast Description

Learn how Engineers and Managers on different water projects leverage technology to improve communication between stakeholders to deliver more efficiently. This panel will share overviews of their projects: ranging from runoff and sediment control in California to pipe and water treatment plant construction in Texas and managing the construction of a Native Salmonid Conservation Plant in Washington state. They'll talk about what is going well, the challenges they faced, and how technology has improved their project oversight. Leaders of water infrastructure projects are feeling the squeeze. Sure, an enormous amount of federal funding is entering the space, but inflation has skyrocketed, and the challenges: droughts, floods, never-ending lead pipes, and securing facilities against cyber attacks, to name a few, are enormous and growing. One way to help water projects stay on budget and deliver on time is to mitigate risk and save hours every day through technology. Technology allows teams to capture, share, and act on what is happening at the job site in real-time.

Learning Objectives:

1. Improve collaboration and communication throughout a project, which helps prevent issues that require rework or additional time.
2. Understand the flexibility and configurability of available software that can be used for both field and office teams and in connected and unconnected environments.
3. Create robust project records with field data that provide better continuity across the asset life cycle and help better plan for similar projects in the future.

Presenter Biography Information

Andrea Pedraza, Project Manager; QSP QK Inc

Andrea, an enthusiastic and skillful Qualified SWPPP Practitioner (QSP), is adept at juggling multiple responsibilities in her dynamic professional roles. She masterfully crafts project plans while keeping both staff and budgets on target. With a natural flair for communication, Andrea bridges the gap between project staff and clients from public and private agencies, creating smooth collaboration. Her responsibilities include coordinating and attending crucial meetings and site visits, showcasing her commitment to fostering strong relationships, and overseeing project success. As a QSP, Andrea brings her keen eye for detail to onsite evaluations of Best Management Practices. Her diligence in verifying that proper protective measures are in place and meticulously documenting site conditions in contract-required reports reflects her unwavering dedication to excellence and compliance.

Rich Barnes, Senior CAD Designer; QSD/QSP, CPESC, QK Inc.

Rich is a highly skilled and versatile professional with extensive knowledge and expertise in using AutoCAD Land Development and Civil 3D Software across various modules. He has been actively involved in projects ranging from preliminary design to record drawings, showcasing his adaptability and commitment to excellence. Rich supports QK's engineering staff in crafting improvement plans (including topographical surveys, demolition plans, grading and drainage plans, utility plans, plan/profile and cross-section sheets, site plans, and detail sheets), plot plans, parcel maps, exhibit maps, record drawings, SWPPP plans, notes, BMP details, binders, and Water Pollution Control Plans. In addition, he is a Certified Professional in Erosion and Sediment Control (CPESC), further highlighting his diverse skill set and dedication to his field.

Stephen Bahr, Civil Engineer; QK Inc.

Stephen is a seasoned Civil Engineer boasting two decades of experience spanning a diverse array of projects and roles. Throughout his career, he has contributed to and led the successful completion of numerous engineering projects in the Central Valley and Southern California. His expertise lies in civil design for new commercial and residential developments, with a particular focus on drainage studies and stormwater management. Stephen excels in designing stormwater conveyance systems, site retention basins, and spill-prevention and containment. His additional proficiencies encompass piping design and engineering for the development of project utilities. A licensed professional since 2011, Stephen's extensive experience and skills make him an asset in the civil engineering field.

Ryan Moloney, Construction Manager Pape Dawson Engineers

Ryan Moloney, a Construction Manager with Pape-Dawson Engineers, has over ten years of experience completing water infrastructure projects nationwide. Ryan is serving as the Construction Manager on the Alliance Water program that is bringing water to Central Texas to support population growth

Mark Holmes, Civil Engineer - Construction Services Department Manager HNTB

Mark has more than 25 years of experience with the design and construction management of public infrastructure. Mark currently serves as the Construction Services leader for HNTB's NW Division, where he focuses on bringing valuable new technologies to clients and project teams that add value to the projects and clients they serve.

AWWA Webinar Program: Breaking Down EPA's Proposed PFAS Drinking Water Rule Webinar April 26th, 2023

Webcast Description

EPA is proposing federal national primary drinking water regulations for six per- and polyfluoroalkyl substances and anticipates finalizing the rule by the end of the year. All community and nontransient noncommunity water systems will be required to comply with the rule. Initial estimates are that the proposal will need more than \$3.8 billion annually to install treatment at an estimated 5,000 water systems. This webinar will describe the rule requirements, including a novel "hazard index" maximum contaminant level proposed by EPA.

Presenter Biography Information

Chris Moody, P.E. Regulatory Technical Manager AWWA Government Affairs

Chris Moody is the Regulatory Technical Manager for AWWA in the Government Affairs office. He has prior experience with the design and construction of environmental engineering projects; currently, he helps manage a portfolio of drinking water issues related to the Safe Drinking Water Act including contaminants like disinfection byproducts (DBPs) and per- and polyfluoroalkyl substances (PFAS).

Stephanie Schlea, Senior Water Policy Advisor Association of State Drinking Water Administrator

Stephanie Schlea is the Senior Water Policy Advisor for the Association of State Drinking Water Administrators (ASDWA). ASDWA's members are the drinking water program administrators in the 50 states, the five territories, the Navajo Nation, and the District of Columbia. Stephanie has more than seven years of experience in water policy and regulation and leads ASDWA's work on PFAS, environmental justice, and infrastructure. Prior to coming to ASDWA, Stephanie worked for the Association of Metropolitan Water Agencies (AMWA), which represents large public drinking water systems, as the Director of Regulatory and Scientific Affairs. Before AMWA, Stephanie oversaw the Commonwealth of Kentucky's 401 Water Quality Certification program, as well as the state's wetlands program.

Adam Feffer, P.E. Water Process Engineer Operations | Engineering & Development Services Black & Veatch

Adam is a Water Process Engineer and Drinking Water PFAS Lead for Black & Veatch and has 18 years of drinking water experience focusing on emerging contaminants, drinking water compliance, surface water treatment optimization, disinfectant byproduct management, and distribution system monitoring. He has a MS in Civil and Environmental Engineering from Cal Poly San Luis Obispo and is a Professional Civil Engineer in NC and CA, as well as a State-Certified Treatment and Distribution Operator.

He is passionate about bringing efficiency and innovation to the drinking water industry for the purpose of benefiting public health domestically and abroad

**AWWA Webinar Program: Microplastics Monitoring: The Mandate and The Messaging
May 3rd, 2023**

Webcast Description

This webinar will provide attendees with an awareness of the California regulatory activity that could presage similar steps in other states and view the results of microplastics communications work conducted under Water Research Foundation 5155 and California's Consumer Messaging Workgroup.

Since the invention of the first synthetic polymer in 1869, the category of materials that have come to be known as "plastics" has transformed the world in profound and productive ways, enabling advancements that would otherwise have been impossible. The worldwide proliferation of plastics has prompted anthropologists to characterize our present time as the "Plasticene Age."

However, the transformational benefits of plastics have not been benign, eliciting environmental challenges on a global scale. Microplastics (typically interpreted to include nanoplastics) are especially problematic; although studies have shown microplastics to be virtually ubiquitous across the planet, analytical methods are both cumbersome and limited (particularly for nano-scale particulates), and human toxicological impact is poorly understood. This ubiquity, coupled with the many remaining analytical and toxicological unknowns, is justifiably pushing this emerging contaminant further into the spotlight -- transitioning it from an intriguing curiosity to a practical reality that necessitates active steps toward preparedness.

Learning Objectives:

1. Prepare for what may be on the regulatory horizon concerning microplastics.
2. Apply insights from the consumer survey toward tailored consumer messaging.
3. Effectively respond to customer and media inquiries on microplastics.

Presenter Biography Information

Scott Coffin, Ph.D. Research Scientist III California State Water Resources Control Board, Div. of Drinking Water

Scott Coffin has a Ph.D. in environmental toxicology and is a Research Scientist at the California State Water Resources Control Board. Since 2014, Dr. Coffin's research has focused on microplastics toxicity and characterization. Currently, Dr. Coffin is leading California's development of drinking water regulations for microplastics and advising management strategies in aquatic ecosystems. In addition, Dr. Coffin has recently led

international expert groups to assess the risks of microplastics to humans and aquatic ecosystems and harmonize analytical methods for microplastics

Patricia Tennyson, Executive Vice President Katz & Associates

Patricia "Patsy" Tennyson holds a Masters of Science in Public Administration and Library Science from San Diego State University and Texas Woman's University, respectively. Patsy serves as WRF Project #5155 Co-PI and is the water industry's most widely recognized leader in public affairs and communications

Alma Beciragic, PhD. Management Consultant Arcadis

Alma Beciragic completed her Ph.D. in Environmental Sciences and Engineering at the UNC Gillings School of Global Public Health in the Fall of 2020. Her dissertation focused on using and developing methods to better understand various emerging micropollutants in water. Alma joined Arcadis in September 2020, where she now serves as a management consultant in the resilience global business area.

**AWWA Webinar Program: Compliance Tool or Major Opportunity? The Future of the Consumer Confidence Report Under EPA's Proposed Rule Revisions
May 31st, 2023**

Webcast Description

On April 5, 2023, The Environmental Protection Agency (EPA) proposed an update to the Consumer Confidence Report Rule (CCR). This webinar will tell you what you need to know to prepare your utility, better engage customers based on what's currently known, and help you understand what is not yet known.

America's Water Infrastructure Act of 2018 (AWIA) required the Environmental Protection Agency (EPA) to update and modernize the 1998 CCR Rule. The CCRs, which are required disclosures of certain water quality and water system information, are also an opportunity to inform and engage with customers to help build trust.

The updated CCR rule as proposed includes key provisions such as codifying electronic delivery, updating the reports with the intent to improve readability, providing the report twice per year for larger systems, and including information about corrosion control. Although not required by AWIA, EPA also included other provisions around translations and other activities in the proposal, including a "don't say safe" provision which proposes to ban utilities from referring to their water as safe in the CCR.

Learning Objectives:

1. Describe the key components of the proposed Consumer Confidence Report rule revisions and articulate key responses AWWA provided in its comments on the proposal.

2. Understand how CCR improvements could help improve or degrade public trust in drinking water.
3. Identify the benefits and potential challenges associated with the electronic delivery of CCRs.
4. Use the information gained to assess your utility's CCR programs to update processes in advance of the final rule.

Presenter Biography Information

Matt Corson, P.E. Director of Environmental Compliance and Stewardship, American Water

Matt is the Director of Environmental Compliance and Stewardship for American Water, the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. He and his team support local operations in providing high quality drinking water and discharging high quality wastewater, all while protecting the environment. In the water industry for almost 30 years, Matt has held positions with ASDWA and the NJDEP, has a B.S. in Chemical Engineering, and is a licensed PE.

Sarah Messier, Water Quality Information Coordinator, Portland Water Bureau

Sarah Messier is a program coordinator at the Portland Water Bureau in the Water Quality Information group. She has 9 years of experience at Portland producing and delivering communication materials that meet both drinking water regulations and community needs, planning and preparing for water quality-related emergency communication events, and increasing language and disability access to essential drinking water information

AWWA Webinar Program: Presented by Mueller — Steps for Helping Utilities Validate Their Lead Service Line Inventory

June 1st, 2023

Webcast Description:

Under the Lead and Copper Rule Revisions, water systems are required to prepare and maintain an inventory of service line materials by October 16, 2024. Panelists will cover the EPA's new guidance, what lead service line detection solutions are available to consumers, and which solution may best suit their needs. The EPA's new guidance will assist water systems in developing and maintaining service line inventories, support notifications to consumers served by lead pipes, and provide states with needed information for oversight and reporting to EPA.

This guidance will also facilitate an investment of \$15 billion in funding through the Bipartisan Infrastructure Law (BIL) that is dedicated to lead service line replacement.

This webinar is for anyone who wants to better understand the water system requirements to prepare and maintain an inventory of service line materials. Participants will learn about solutions to help their utility validate their lead service line inventory and address increasingly important environmental concerns. You'll also hear how other utilities are addressing the challenges of the EPA Mandate to inventory lead service lines by October 2024.

Learning Objectives:

1. Find out why it is crucial to identify lead service lines in our current water industry.
2. Review water system requirements to prepare and maintain an inventory of service line materials.
3. Discover lead detection solutions that are currently available and which of them may be the best fit for their utility.

Presenter Biography Information

Richard Brant, Subject Matter Expert Severn Trent Water

Richard has worked for Severn Trent Water for 17 years. Starting as an apprentice, working in R&M, Richard has progressed through several roles including Senior Technician, R&M Manager, Project Delivery Lead and currently holds the role of Subject Matter Expert with the Green Recovery Department. In this role, Richard leads on Innovation concentrating on the STW Lead Replacement Supply Pipes Program, and also runs the New Products Group CoP, which looks at a range of products and ideas for the Infra and Non-Infra world within STW. STW endeavors to resolve issues by working with their Framework suppliers to design and develop innovative ideas.

Dave Johnston Director, Smart Infrastructure

Dave Johnston has been with Mueller Water Products for 10 years in various roles including operations, engineering and product development. Johnston has also been an integral part of the development team for the new Sentryx™ Water Intelligence Platform, designed to give utilities valuable insights into the health of their water system to improve decision making, saving time and money.

AWWA Webinar Program: Environmental Justice (EJ) and the Water Sector: Challenges and Opportunities for Water Utilities and the Sector
June 28th, 2023

Webcast Description

This virtual roundtable dialogue between leaders from various sectors of the water and legal

communities will focus on the current and evolving environmental justice (EJ) issues that the water sector is managing with respect to their legal and operational challenges and opportunities.

This discussion aims to help water utility leaders, sector suppliers, and consultants successfully navigate the various contractual, compliance, and communication aspects that EJ presents. Discussion topics amongst experts from the water utility, legal, and supplier communities will include current and evolving EJ regulations and requirements impacting water utilities and the sector that are being promulgated by (or through) EPA, the Department of Justice, and other Federal agencies; a discussion of EJ activities being successfully undertaken by utilities to meet EJ requirements; an overview of equal protection case law and legal standards impacting water utilities' EJ activities; managing contractual, infrastructure replacement and new construction, and human resource activities through the EJ lenses; and a discussion on various federal and state resources available to water utilities and the sector in navigating EJ legal and operational challenges.

Learning Objectives

1. Learn ways to manage and negotiate contracts and related contractual issues with EJ issues in mind.
2. Understand the importance of proactively handling the key EJ legal, regulatory, and compliance issues and requirements that impact water utilities and the sector and how to handle these.
3. Learn about the evolving practices of water utilities that successfully navigate EJ legal and operational aspects of EJ issues and/or requirements.
4. Understand possible federal and/or state resources to assist water utilities and the sector in meeting various legal and operational EJ requirements which impact them.

Presenter Biography Information

Alexandra (Alex) Dunn, Esq. Partner Baker Botts LLP

Alexandra (Alex) Dunn is a Partner in the Environmental, Safety, and Incident Response group at the international law firm of Baker Botts with 28 plus years of practice at the local, state, and federal levels of government. Her deep relationships across the nation and reputation for transparency, fairness, and equity, make her an effective presence in the difficult settings. Alex works with companies of all sizes – from multi-national corporations to startups – and with national organizations on environmental justice and risk communication, sustainability, the regulation and management of emerging contaminants, site cleanup and restoration, chemical regulations, enforcement and compliance assistance, and risk communication.

Christopher P. Luning, Esq. Counsel Essential Utilities' Aqua Water and Wastewater Division

Christopher Luning has spent more than a decade as executive vice president and general counsel for Essential Utilities, a purpose-driven commercial water, wastewater and natural gas provider that serves approximately 5.5 million people across 10 states. He leads the company's legal, risk management, regulatory and legislative, environmental, and safety and compliance work, among other roles. He was previously vice president of corporate development. He joined the company in 2003.

Since 2016, the company has acquired 40 water and wastewater systems, and three years ago, expanded into natural gas. Also in that time, it has contributed more than \$16 million dollars in goods and services to local and regional non-profits supporting the communities in which the company operates.